

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/07377

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ F24F3/14, F24F7/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F24F3/14, F24F7/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Jitsuyo Shinan Toroku Koho	1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 8-313186 A (Mitsubishi Electric Corp.), 29 November, 1996 (29.11.96), Full text; all drawings (Family: none)	1-3, 5-7, 9 4, 8, 10-13
X Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 030488/1980 (Laid-open No. 132471/1981) (Mitsubishi Electric Corp.), 07 October, 1981 (07.10.81), Full text; all drawings (Family: none)	1-3, 5-7, 9 4, 8, 10-13



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
09 September, 2002 (09.09.02)

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Japanese Patent Office

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 122361/1978 (Laid-open No. 39434/1980) (Mitsubishi Electric Corp.), 13 March, 1980 (13.03.80), Full text; all drawings (Family: none)	1-13